

JCO4 Rec'd PCT/PTO 27 OCT 2005

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Seiichi TANABE, et al.

Appln. No.: 10/541,021

Confirmation No.: Unknown

Filed: June 28, 2005



Docket No: Q88428

Group Art Unit: Unknown

Examiner: Unknown

For: **PROCESS FOR PRODUCING PENTAERYTHRITOL DIPHOSPHONATE**

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

1. The disclosure on page 3 of the present specification and the submission of an English language abstract for JP-A-5-163288 constitutes a concise statement of relevance of JP-A-5-163288.

2. The indication in the International Search Report of the degree of relevance found by the foreign patent office, the disclosure on page 4 of the present specification, and the submission of an English language abstract, as well as corresponding US Publication 2004/0127611-A1 constitute a concise statement of relevance of WO 02/092690.

3. The disclosure on page 4 of the present specification and the submission of an English language abstract, as well as corresponding US Patent 4,178,281, constitute a concise statement of JP-A-54-157156.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No.: 10/541,021

Attorney Docket No. Q88428

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

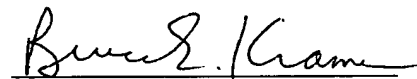
Respectfully submitted,

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WASHINGTON OFFICE

**23373**

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Date: October 27, 2005

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| Substitute for Form 1449A & B/PTO                            |  |  |  | Complete if Known      |                |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br> |  |  |  | Application Number     | 10/541,021     |
|  |  |  |  | Confirmation Number    | Unknown        |
|  |  |  |  | Filing Date            | June 28, 2005  |
|  |  |  |  | First Named Inventor   | Seiichi TANABE |
|  |  |  |  | Art Unit               | Unknown        |
|  |  |  |  | Examiner Name          | Unknown        |
| Sheet <u>1</u> of <u>1</u>                                   |  |  |  | Attorney Docket Number | Q88428         |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
|--------------------|-----------------------|-----------------|--------------------------------------|--------------------------------|---|
|                    |                       | Number          | Kind Code <sup>2</sup><br>(if known) |                                |   |
|                    |                       | US 2004/0127611 | A1                                   | 07-01-2004                     | YAMANAKA ET AL.                                 |
|                    |                       | US 4,174,343    |                                      | 11-13-1979                     | HARDY ET AL.                                    |
|                    |                       | US 3,141,032    |                                      | 07-14-1964                     | LESTER FRIEDMAN                                 |
|                    |                       | US 4,178,281    |                                      | 12-11-1979                     | WILLIAM E. HORN, JR.                            |
|                    |                       | US              |                                      |                                |   |
|                    |                       | US              |                                      |                                |   |
|                    |                       | US              |                                      |                                |   |
|                    |                       | US              |                                      |                                |   |
|                    |                       | US              |                                      |                                |   |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document                  | Translation <sup>6</sup>   |
|--------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------|--|--|
|                    |                       | Country Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |  |  |
|                    |                       | JP                        | 5-163288            | A                                    | 06-29-1993                     | MITSUI PETROCHEM IND. LTD.                                       | ABSTRACT   |
|                    |                       | WO                        | 02/092690           | A1                                   | 11-21-2002                     | TEIJIN CHEMICALS LTD.;<br>YAMANAKO KATSUHIRO;<br>TAKETANI YUTAKA | ABSTRACT and<br>Corresponding<br>US Publication<br>No.<br>2004/0127611 |
|                    |                       | JP                        | 54-157156           | A                                    | 12-11-1979                     | BORG WARNER  | ABSTRACT and<br>Corresponding<br>US Patent<br>4,178,281                |
|                    |                       |                           |                     |                                      |                                |  |  |
|                    |                       |                           |                     |                                      |                                |  |  |
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## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation <sup>6</sup> |
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| Examiner Signature |  | Date Considered |  |
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.